

FACTORFIVE

+ HUMAN STEM CELL FACTORS

FACTORFIVE® Nourishing Silk decreases the appearance of fine lines and wrinkles when compared to ALASTIN Regenerating Skin Nectar®
A Double-Blinded Study

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Summary

FACTORFIVE Skincare was founded based on the fact that multiple scientific studies indicate that adult human adipose-derived mesenchymal stem cells (ADMSCs) have the ability to boost the skin's regenerative capacity. Scientific evidence indicates that the main beneficial effects that ADMSCs possess are mediated by the growth factors and cytokines secreted from the cells themselves. By collecting the media after ADMSCs are cultured, FACTORFIVE captures a multitude of proteins that have therapeutic uses, integrating them into their innovative products. FACTORFIVE raises the bar for cosmetic skincare, allowing consumers to make informed purchases of efficacious products based on rigorous scientific findings. Here we show that FACTORFIVE Nourishing Silk improved the appearance of wrinkles by double digits in weeks 4 and 6. In some cases, single subjects realized a 41.7% and 36.7% decrease in wrinkle visibility in weeks 4 and 6 respectively. Meanwhile, subjects on ALASTIN Regenerating Skin Nectar® actually had higher wrinkle counts on average than before they began treatment. In week 8, for example, subjects showed an average of 20.7% increase in wrinkle visibility with ALASTIN Regenerating Skin Nectar®. Together, these data indicate that after eight weeks of application,

participants saw a noticeable and measurable improvement with the use of FACTORFIVE Nourishing Silk.

Introduction

Adipose-derived mesenchymal stem cells (ADMSCs) are adult stem cells that can self-renew and differentiate into myocytes, chondrocytes, adipocytes, and osteoblasts. These unique stem cells have demonstrated therapeutic potency for treating numerous clinical conditions, including a multitude of inflammatory diseases, ischemia, fibrosis, myocardial infarction, type I diabetes, and a variety of autoimmune diseases. Importantly, ADMSCs can also be used for a multitude of regenerative medicine applications, including wound healing and skin repair. ADMSCs are easily obtained from lipoaspirates extracted during cosmetic surgery. Scientific evidence indicates that the main beneficial effects that ADMSCs possess are mediated by the growth factors and cytokines secreted from the cells. Thus, collecting the media after ADMSCs are cultured, known as conditioned media (CM), is a method of capturing the multitude of proteins that have therapeutic uses.

FACTORFIVE obtains human adipose through a proprietary isolation, cryopreservation, and cell culture process using animal-free reagents. Adipose is isolated from consenting patients through medical professionals and surgeons. Patients are rigorously screened and tested prior to donation. Adipose samples are de-identified as per HIPAA compliance regulations, transported under aseptic conditions, and processed within 24 hours of liposuction. ADMSCs are then certified disease-free by an independent laboratory. FACTORFIVE cultures these ADMSCs in the laboratory, collecting the CM they produce, and integrating it into their various products.

Study Design

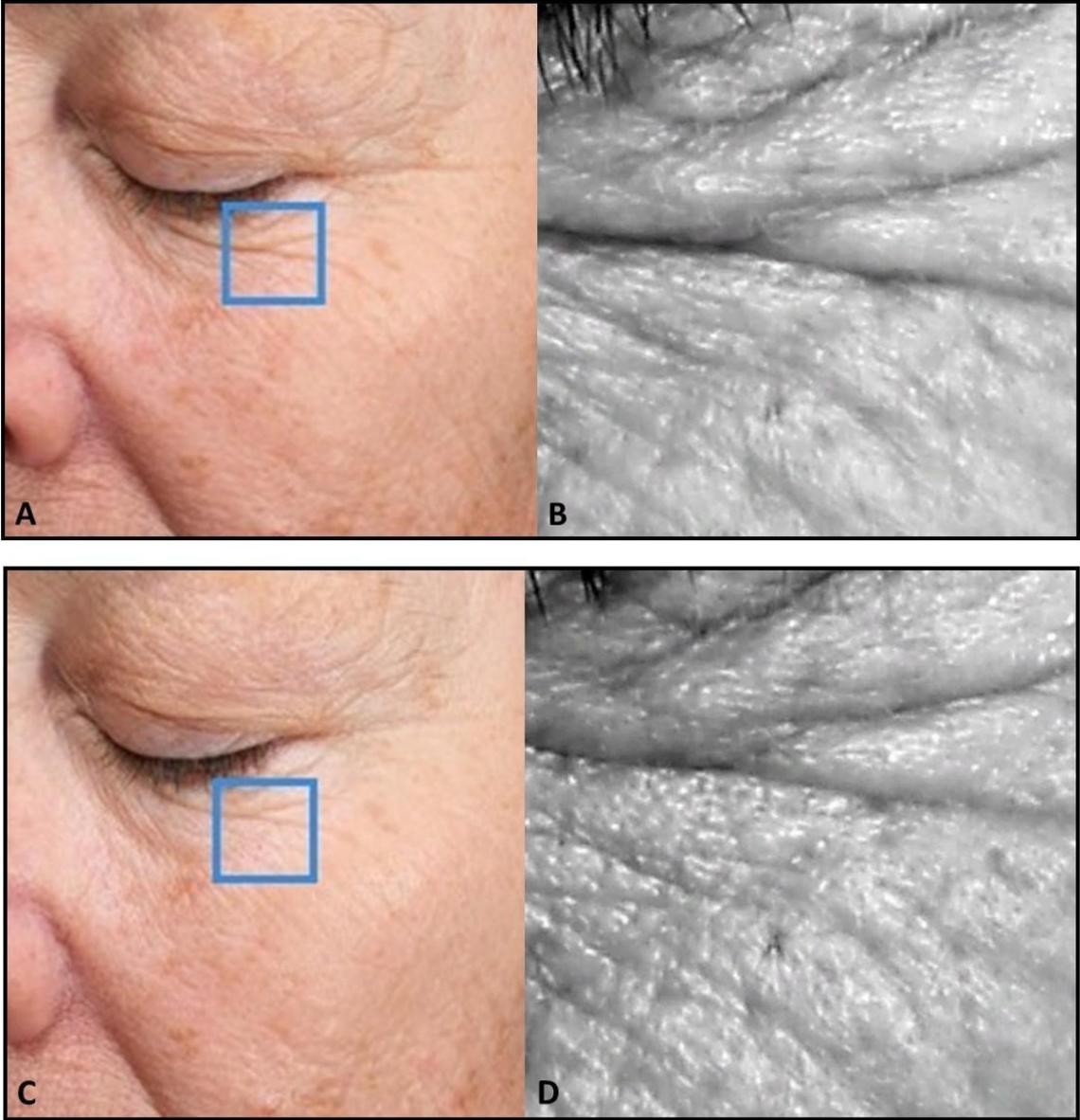
Our laboratory performed a double-blind, split-face study comparing the daily-use effects of FACTORFIVE Nourishing Silk vs ALASTIN Regenerating Skin Nectar®. These studies occurred over 8 weeks from mid-June until mid-August 2022. There were a total of 10 original study participants. One participant's results were excluded for non-compliance while another was excluded for an unanticipated adverse reaction³. Participants were males and females between 31 and 75 years old, with an average age of 48. To quantitate changes in skin quality, we utilized the Canfield VISIA Complexion Analysis System. A selection of VISIA® images from this study are provided in the results section.

Study participants were interviewed regarding their current use of skincare and cosmetic products, and were instructed to refrain from using any anti-aging products for at least one week prior to starting the trial. Each participant was scanned using the VISIA® analysis system to get a baseline (control scan). At the inception of the trial and before every subsequent facial scan, participants cleansed their faces.

Participants were then given a sealed, numbered bag with two bottles labeled LEFT and RIGHT. Participants' bag numbers were recorded for later unblinding. Participants were told to use 1-2 pumps in the morning and 1-2 pumps in the evening, spreading the serum evenly on the labeled side of the face and gently massaging it into their skin until fully absorbed. Participants were instructed to refrain from using other products in conjunction with the products on trial, except for mild cleansers and moisturizers. Participants also refrained from excessive/intense sun exposure or any activity or product use that might otherwise skew the results. Participants were asked to return 4, 6, and 8 weeks later for follow-up scans.

VISIA® scans of participants were performed, and data were analyzed to quantify change over time following treatment.

Results



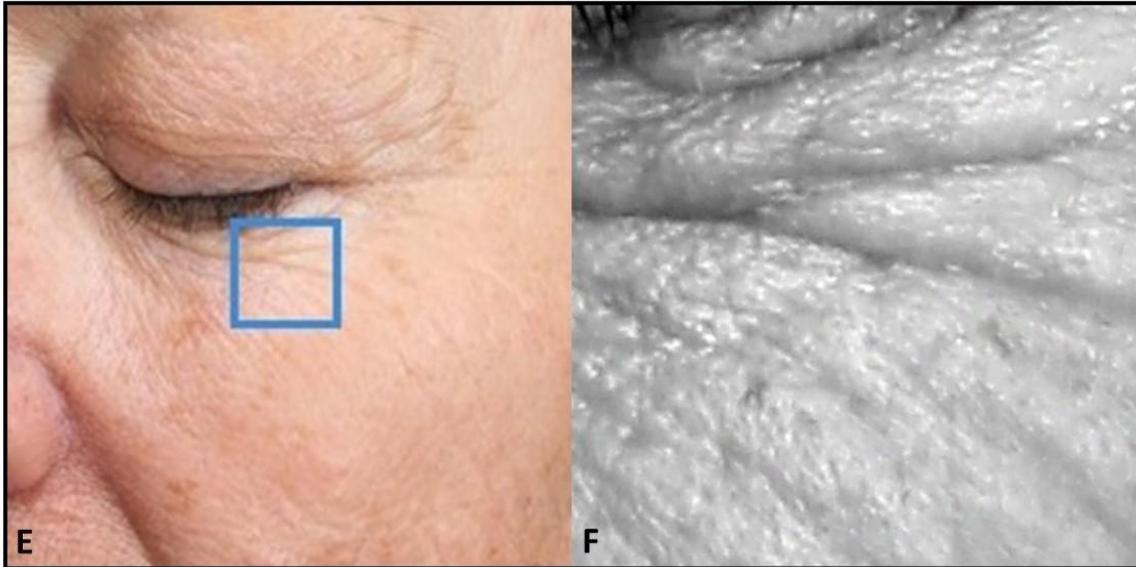


Figure 1. Visible reduction in wrinkles over 6 weeks with the daily use of Silk. The left column (A, C, E) shows the original image. The right column (B, D, F) shows the corresponding inset using Visia 3D Viewer in grayscale. Scans were performed at baseline (A, B), 4 weeks (C, D), and at 6 weeks (E, F) of treatment.



Figure 2. Visible reduction of wrinkles of a 75-year-old female with the daily use of Silk over 6 weeks.



Figure 3. Visible reduction in buccal wrinkles of a 75-year-old female with the daily use of Silk over 6 weeks.



Figure 4. Decrease in periorbital wrinkles using Visia A.I. algorithm of a 46-year-old female with the daily use of Silk over 6 weeks.



Figure 5. Decrease in periorbital wrinkles using Visia A.I. algorithm of a 33-year-old female with the daily use of Silk over 4 weeks.



Figure 6. Visible decrease in periorbital wrinkles of a 63-year-old female with the daily use of Silk over 4 weeks.

Table 1: VISIA® wrinkle improvement results after 4 weeks of twice-daily Nourishing Silk and Regenerating Skin Nectar® application

Participants	Silk	Nectar®
1	0	8.6
2	-11.1	-1.2
3	22.1	22.9

4	18.3	-14.3
5	41.7	-12.5
6	8.9	-5.4
7	2.8	-5.7
8	3.5	-32.1
% of people improved	75	25
Average improvement	10.8	-5
Max improvement	41.7	22.9

Values shown represent feature count as percent (%) change over the course of the initial 4 weeks. Numbers in black are positive (fewer wrinkles) and numbers in red are negative (increased wrinkles). Average improvement and max improvement are shown at the bottom of the table.

Table 2: VISIA® wrinkle improvement results after 6 weeks of twice-daily Nourishing Silk and Regenerating Skin Nectar® application

Participants	Silk	Nectar®
1	-19.1	-32.9
2	32.1	19.5
3	-16.8	-14.5
4	8.3	-21.9
5	36.7	-15
6	10.1	-8.9
7	19.8	3.8
8	25.9	19.6
% of people improved	75	37.5
Average improvement	12.1	-6.3
Max improvement	36.7	19.6

Values shown represent feature count as percent (%) change over the course of the initial 4 weeks. Numbers in black are positive (fewer wrinkles) and numbers in red are negative (increased wrinkles). Average improvement and max improvement are shown at the bottom of the table.

Table 3: VISIA® wrinkle improvement results after 8 weeks of twice-daily Nourishing Silk and Regenerating Skin Nectar® application

Participants	Silk	Nectar®
1	-16.2	-70
2	14.8	15.9
3	-14.7	-39.8
4	23.9	-13.3
5	40	0

6	-2.5	-19.6
7	26.4	-17
8	-10.6	-21.4
% of people improved	50	12.5
Average improvement	7.6	-20.7
Max improvement	26.4	15.9

Values shown represent feature count as percent (%) change over the course of the initial 4 weeks. Numbers in black are positive (fewer wrinkles) and numbers in red are negative (increased wrinkles). Average improvement and max improvement are shown at the bottom of the table.

Conclusions

At the conclusion of the study, twice daily application of FACTORFIVE Nourishing Silk reduced the appearance of fine lines and wrinkles better than ALASTIN Regenerating Skin Nectar® over eight weeks of use.

³ Participant developed redness and pustules below their left eye after the application of Nectar®.